

What Is Claimed Is:

1. An access control system comprising:

a first information processing device connected to a first network for holding information, at least one second  
5 information processing device connected to a second network;  
and

an access control device for controlling access of said second information processing device with said first information processing device,

10 wherein said second information processing device possesses a copy of said information; and

among access requests to said first information processing device from said second network, said access control device grants only access requests from said second information  
15 processing device.

2. An access control system according to claim 1, wherein access requests from said second information processing device are transmit requests for information possessed by said first information processing device.

20 3. An access control system according to claim 2, wherein said second network connects with a third information processing device for requesting access to information possessed by the first information processing device; and wherein when access to information requested of said third  
25 information processing device is not possessed by said second

information processing device, said second information processing device issues said transmit request to said first information processing device.

4. An access control system according to claim 2,  
5 wherein said second information processing device acquires information relating to changes in information held by the first information processing device and issues said transmit request when changes to said information have been made.

5. An access control system according to claim 4,  
10 wherein information relating to changes in information held by said first information processing device is a first check code relating to said information and said second information processing device calculates a second check code for a copy of information on said second information processing device,  
15 and compares said first check code with said second check code and determines whether or not changes were made in information held in said first information processing device.

6. An access control system according to claim 1,  
20 wherein said second network is further connected to a load dispersing device;  
wherein when an access request is issued to said first information processing device from said third information processing device, said load dispersing device allows access to one of said second information processing devices in response  
25 to said access request.

7. An access control system according to claim 6,  
wherein said load dispersing device is a domain name server;  
wherein when an access request was made to said first  
information processing device, said load dispersing device  
5 sends one IP address of said second information processing  
device back to said third information processing device.

8. An access control system according to claim 1,  
wherein said first network is a local area network, and said  
second network is Internet.

10 9. An access control system according to claim 1,  
wherein said first information processing device is a WWW  
server; and  
wherein said access control device approves the access request  
when the access request from said second information processing  
15 device is an HTTP protocol.

10. An access control device for controlling access  
with a first information processing device possessing  
information and connected to a first network, and at least  
one second information processing device connected to a second  
20 network and having copies of said information; and  
said access control device comprising:

receiving unit which receives an access request from said  
second network for said first information processing device;  
and

25 a control unit for checking said transmit sources for

said received access request, and approving access to said first information processing device only when said transmit source of said access request is said second information processing device.

5           11. An access control device according to claim 10, wherein said control unit grants access to said first information processing device only when said protocol for said access request is an HTTP protocol.

10           12. An access control system according to claim 10, further comprising:

a communications unit for communicating with said first information processing device,

15           wherein when said control unit grants said access request, an access request is sent to said first information processing device.

13. An access control device according to claim 12, wherein said access request sent by said control unit is a transmit request for information held by said first information processing device.

20           14. An access control device according to claim 12, wherein said access request sent by said control unit is a transmit request for a check code for information held by said first information processing device.

25           15. An information distributing system for holding information and connected to a first network, comprising:

control unit to create rewritten information from said information,

communications unit for communicating with an access control section for controlling access with said first network and second networks,

wherein said communications unit which is connected to said second network receives an access request for information from an information processing device possessing a copy of said information and sends information rewritten by said control unit.

16. An information distributing system according to claim 15, wherein, said communications unit sends a check code for said rewritten information as said rewritten information.

17. An information distributing system according to claim 15, wherein said information distributing system is a WWW server, and said first network is a local area network, and said second network is Internet.

18. A second information processing device for communicating with a first information processing device connecting to a first network by way of an access control device for controlling connections with said first network and a second network and said second information processing device, comprising:

a memory section having an information copy held in said first information processing device;

a receiving unit to acquire a first rewrite information relating to original information of said information copy from said first information processing device;

a control unit for making a second rewrite information relating to said information copy and for comparing it with acquired rewrite information of said original information; and

a transmit unit for issuing a transmit request of said original information when said first and second rewrite information are different.

19. A second information processing device according to claim 18, wherein said first and second rewrite information are check codes.

20. A second information processing device according to claim 18, wherein said transmit section sends said transmit request for said original information as an HTTP protocol.

21. A second information processing device for communicating with a first information processing device, which connects to a first network by way of an access control device for controlling connections with said first network and a second network, said second information processing device connecting to said second network and comprising:

a memory section for storing an information copy held in said first information processing device,

a communications unit to acquire a first rewrite

information relating to said information copy from another said second information processing device connecting to said second network having an information copy of information possessed by said memory section,

5           a control unit to make a second rewrite information relating to copy of information possessed by said memory section, and comparing said second rewrite information with said acquired first rewrite information.

10           22. A second information processing device according to claim 21, wherein said communications unit requests said first information processing device to transmit said original of copy information possessed by said memory section when said first rewrite information does not match to said second rewrite information results.

15           23. A second information processing device according to claim 21, wherein said first and said second rewrite information are check codes.

20           24. A second information processing device according to claim 21, wherein said first network is a local area network, and said second network is Internet.

25           25. A second information processing device according to claim 21, wherein said communications unit requests said original transmission as an HTTP protocol.

25           26. A second information processing device according to claim 21, wherein said communications unit acquires said

second rewrite information from a plurality of other said second information processing devices and,

said control unit compares said first rewrite information with a plurality of said second rewrite information, and makes  
5 a transmission request to said first information processing device when said first rewrite information is not affiliated with the majority.

27. A second information processing device for communicating with a first information processing device, which  
10 connects to a first network by way of an access control device for controlling connections with said first network and a second network, said second information processing device connecting to said second network and comprising:

a memory section for storing an information copy held  
15 in said first information processing device;

a communications unit for receiving a connection request from another said second information processing device connecting to said second network, and acquiring information from said first information processing device when said  
20 information of the connection request is not in said memory section; and

a control section to calculate rewrite information of said acquired information,

wherein said communications unit sends said calculated  
25 rewrite information to another said second information



processing device.

28. A second information processing device according to claim 27, wherein said rewrite information is check codes relating to said information.

5 29. A second information processing device according to claim 27, wherein said communications unit communicates with said first information processing device by an HTTP protocol.

10 30. An information distributing system comprising a plurality of second information processing devices for communicating with a first information processing device connecting to a first network by way of an access control device for controlling connections with said first network and a second network, a plurality of said second information processing  
15 devices connecting to said second network, and

each of a plurality of said second information processing devices comprising:

a memory section for storing an information copy held in said first information processing device;

20 a communications unit for acquiring a first rewrite information relating to a copy of information possessed by another said second information processing device; and

a control unit for making a second rewrite information relating to copy of information possessed by said memory section,

25 and comparing said second rewrite information with said

acquired first rewrite information.

31. An information distributing system according to claim 30, wherein said communications unit makes a transmission request to said first information processing device to send an original of said copy information possessed by said memory section when said first rewrite information does not match to said second rewrite information.

32. An information distributing system according to claim 30, wherein said first and second rewrite information are check codes.

33. An information distributing system according to claim 30, wherein said second network is Internet.

34. An information distributing system according to claim 30, wherein said communications unit requests sending said original as an HTTP protocol.

35. An information distributing system according to claim 30, wherein

said communications unit acquires said second rewrite information from a plurality of said other second information processing devices, and

said control unit compares said first rewrite information with a plurality of said first rewrite information, and makes a transmission request to said second information processing device when said first rewrite information is not affiliated with the majority.